NEUROMICS

Neuregulin-3 (NRG3) Data Sheet

Catalog Number:	GT15220	**Host:**	Goat
Product Type:	Affinity purified	**Species Reactivity:**	Mouse
Immunogen Sequence:	Purified, NS0-derived, recombinant mouse neuregulin-3 EGF-like domain (rmNRG3 EGF-like domain).	**Format:**	Liquid 1mg/ml Phosphate-buffered saline (PBS) with 5% trehalose.
Applications:	Immunohistochemistry : 1.7-5 µg/mL. Western Blot: 0.1 - 0.2 µg/mL Direct ELISA: 0.5 - 1.0 µg/mL		
	Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*		

Application Notes

Specificity
This antibody has been selected for its ability to recognize rmNRG3 EGF-like domain in direct IHC, ELISAs and Western blots.

Immunohistochemistry
This antibody will detect Neuregulin-3 in cells and tissues. The working dilution is 1.7 - 5 µg/mL.

Direct ELISA
This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse NRG3 EGF-like domain.

Western blot
This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse NRG3 EGF-like domain. The detection limit for rmNRG3 is approximately 2 ng/lane under non-reducing and reducing conditions.

Description/Data:
The neuregulin (also known as heregulin) cytokine family is comprised of four genes that encode a large number of secreted or membrane-bound isoforms. All family members share an EGF-like domain that interacts with the ErbB family of tyrosine kinase receptors. The NRG1 gene is the most pleiotropic, encoding more than 14 soluble or transmembrane proteins. NRG1 isoforms can be classified into type I (neu differentiation factor, NDF; heregulin, HRG; acetylcholine receptor inducing activity, ARIA), type II (glial growth factor, GGF) and type III (sensory and motor neuron-derived factor, SMDF) isoforms. NRG proteins show distinct spatial and temporal expression patterns and play important roles during development of both the nervous system and the heart.

FOR RESEARCH USE ONLY

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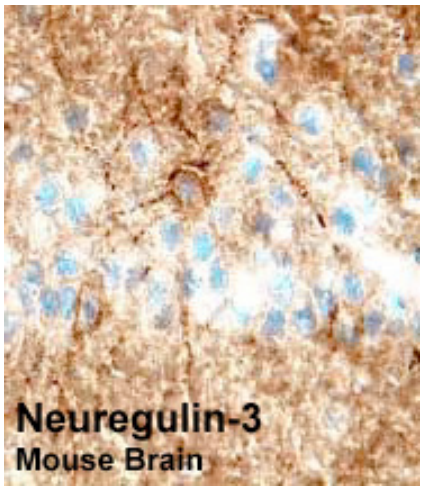

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